

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the Application.

1. (Currently Amended): A recording/reproduction apparatus for recording or reproducing AV data onto or from a recording medium, comprising:

AV data file recording means for recording an AV data file obtained by converting the AV data into a file onto the recording medium;

production means for producing reproduction range information representative of a range of reproduction of the AV data file;

classification means for classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data or a picture follows the picture at the connection point;

addition means for adding information representative of a result of the classification of said classification means to the reproduction range information;

preparation means for arranging at least more than one piece of the reproduction range information in order for reproduction to prepare a reproduction list; and

reproduction list recording means for recording the reproduction list onto the recording medium.

Claim 2 (Original): A recording/reproduction apparatus according to claim 1, wherein said classification means classifies the state of at least one end of the reproduction range into one of four types.

Claim3 (Original): A recording/reproduction apparatus according to claim 1, further comprising formation means for forming a bridge sequence in response to a result of the classification of said classification means.

Claim 4 (Currently Amended): A recording/reproduction method for a recording/reproduction apparatus for recording or reproducing AV data onto or from a recording medium, comprising:

- an AV data file recording step of recording an AV data file obtained by converting the AV data into a file onto the recording medium;

- a production step of producing reproduction range information representative of a range of reproduction of the AV data file;

- a classification step of classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data of a picture follows the picture at the connection point;

- an addition step of adding information representative of a result of the classification by the processing in the classification step to the reproduction range information;

- a preparation step of arranging at least more than one piece of the reproduction range information in order for reproduction to prepare a reproduction list; and

- a reproduction list recording step of recording the reproduction list onto the recording medium.

Claim 5 (Currently Amended): A recording medium on which a computer-readable program for recording or reproducing AV data onto or from an information recording medium is recorded, the program comprising:

an AV data file recording step of recording an AV data file obtained by converting the AV data into a file onto the information recording medium;

a production step of producing reproduction range information representative of a range of reproduction of the AV data file;

a classification step of classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data of a picture follows the picture at the connection point;

an addition step of adding information representative of a result of the classification by the processing in the classification step to the reproduction range information;

a preparation step of arranging at least more than one piece of the reproduction range information in order for reproduction to prepare a reproduction list; and

a reproduction list recording step of recording the reproduction list onto the information recording medium.

Claim 6 (Currently Amended): A recording/reproduction apparatus for recording or reproducing AV data onto or from a recording medium, comprising:

readout means for reading out a reproduction list recorded on the recording medium;

extraction means for extracting information representative of a state of at least one end of a range of reproduction from among at least more than one piece of reproduction range information which forms the reproduction list;

classification means for classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data of a picture follows the picture at the connection point; and

reproduction means for reproducing the AV data recorded on the recording medium based on the information representative of the state of the at least one end of the range of reproduction extracted by said extraction means.

Claim 7 (Currently Amended): A recording/reproduction method for a recording/reproduction apparatus for recording or reproducing AV data onto or from a recording medium, comprising:

a readout step of reading out a reproduction list recorded on the recording medium;

an extraction step of extracting information representative of a state of at least one end of a range of reproduction from among at least more than one piece of reproduction range information which forms the reproduction list;

a classification step of classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data of a picture follows the picture at the connection point; and

a reproduction step of reproducing the AV data recorded on the recording medium based on the information representative of the state of the at least one end of the range of reproduction extracted by the processing in said extraction step.

Claim 8 (Currently Amended): A recording medium on which a computer-readable program executed by a computer for recording or reproducing AV data onto or from an information recording medium is recorded, the program comprising:

a readout step of reading out a reproduction list recorded on the information recording medium;

an extraction step of extracting information representative of a state of at least one end of a range of reproduction from among at least more than one piece of reproduction range information which forms the reproduction list;

a classification step of classifying a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data of a picture follows the picture at the connection point; and

a reproduction step of reproducing the AV data recorded on the information recording medium based on the information representative of the state of the at least one end of the range of reproduction extracted by the processing in said extraction step.

Claim 9 (Previously Presented): The recording/reproduction apparatus according to claim 1, wherein said connection point is a clean break, said clean break involving processing that removes data unnecessary for decoding processing.

Claim 10 (Previously Presented): The recording/reproduction method according to claim 4, wherein said connection point is a clean break, said clean break involving processing that removes data unnecessary for decoding processing.

Claim 11 (Previously Presented): The recording medium method according to claim 5, wherein said connection point is a clean break, said clean break involving processing that removes data unnecessary for decoding processing.

Claims 12-13 (Canceled).

Claim 14 (New): A recording/reproduction apparatus for recording or reproducing AV data onto or from a recording medium, comprising:

AV data file recording unit configured to record an AV data file obtained by converting the AV data into a file onto the recording medium;

production unit configured to produce reproduction range information representative of a range of reproduction of the AV data file;

classification unit configured to classify a state of at least one end of the range of reproduction depending on whether a picture precedes a picture at a connection point of the at least one end of the range of reproduction or data or a picture follows the picture at the connection point;

addition unit configured to add information representative of a result of the classification of said classification unit to the reproduction range information;

preparation unit configured to arrange at least more than one piece of the reproduction range information in order for reproduction to prepare a reproduction list; and

reproduction list recording unit configured to record the reproduction list onto the recording medium.